



**Oregon
Department
of Transportation**

South Coast Slides Study

SWACT May 13, 2022



Project Goals

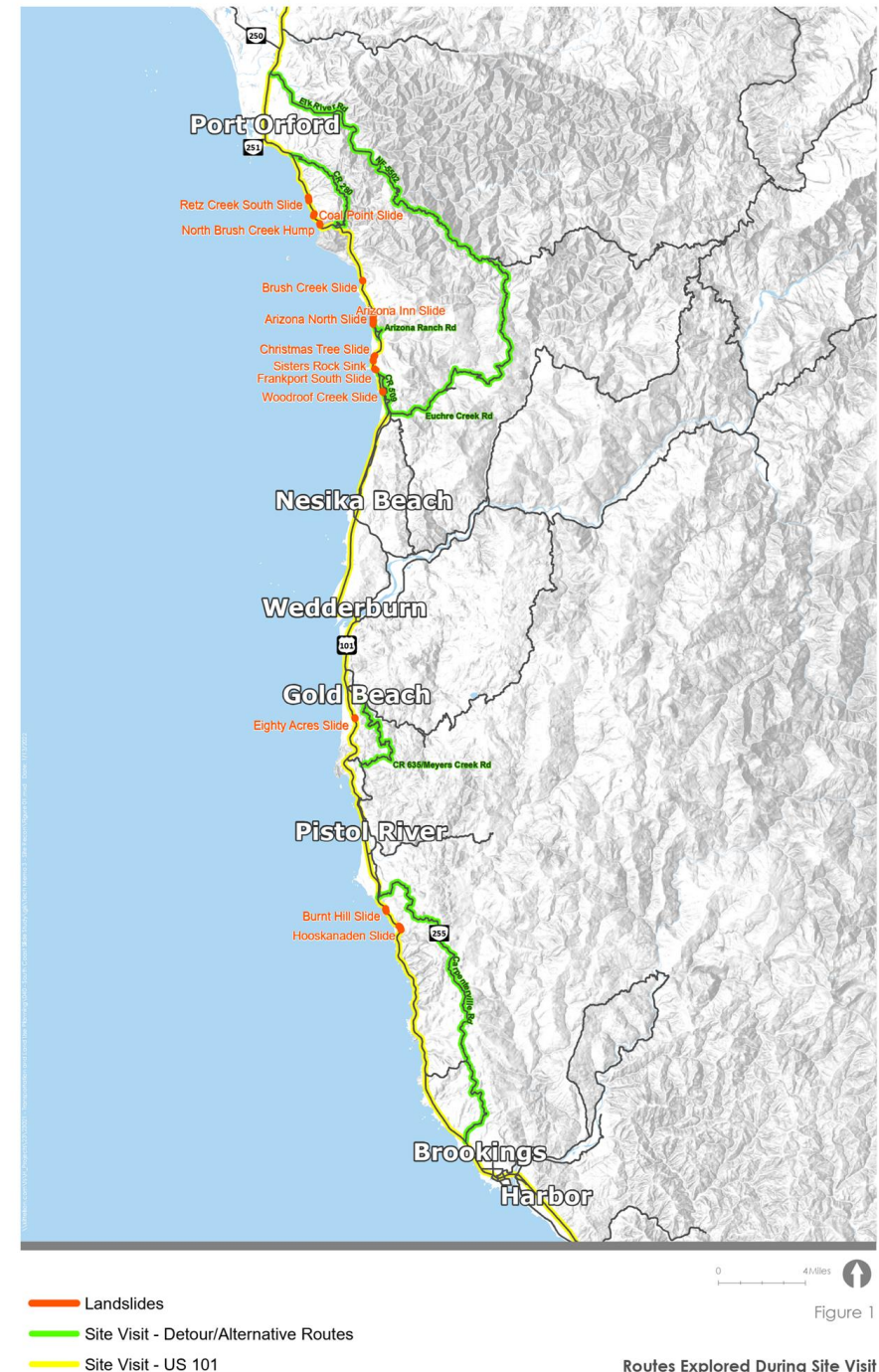
Improve transportation resiliency along US 101 between the cities of Port Orford & Brookings

- Identify strategies to stop and/or reduce the recurrence of the study landslides
- Reduce recovery times
- Improve traffic control & communications
- Improve safety & operations along US 101 and other viable detour routes
- Reduce operations & maintenance costs



Key Tasks

- Evaluate and prioritize which slides are most likely to result in a partial or full closure
- Evaluate routes around slides
- Develop conceptual mitigation strategies with cost estimates for roads and slides
- Work with stakeholders to identify transportation challenges during slides
- Develop traffic control plans for slide events
- Document all information in one place





Key Outcomes

Sustainable solutions & management strategies that are:

- Unlikely to worsen existing or create new slides
- Technically feasible
- Cost effective to construct and maintain
- Communication and traffic control plans for implementation during a slide

Challenges

- Limited options – constrained by steep topography and ocean
- Alternative routes are within slide areas
- Carpenterville Road has 98 known slides
- Private property
- Environmental issues (fish streams, ground water, etc.)
- Cost



Tie back retaining wall



Horizontal drains

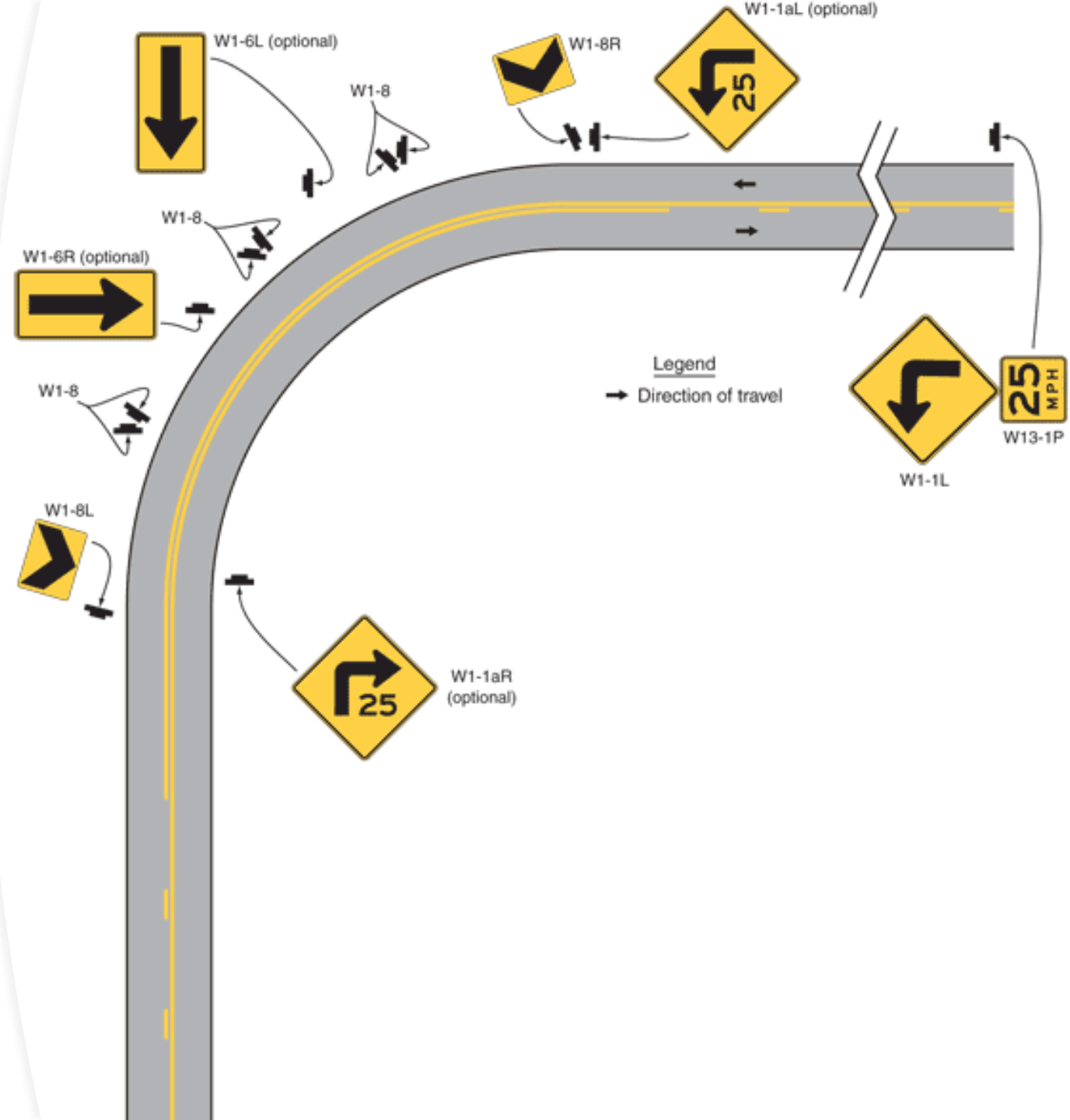


Slide Mitigation

- Shear Key – stone columns, shear piles, drilled shafts, excavation backfilled with stone
- Drains (horizontal or trench)
- Soldier Pile Tieback Wall
- Stockpile materials

Roadway Mitigation

- Curve corrections
- Guardrails
- Roadway Widening
- Add pull outs/vehicle turn around areas
- Pave gravel sections
- Warning Signage
- Wayfinding Signage
- Clearing to improve sight distance
- Traffic Control

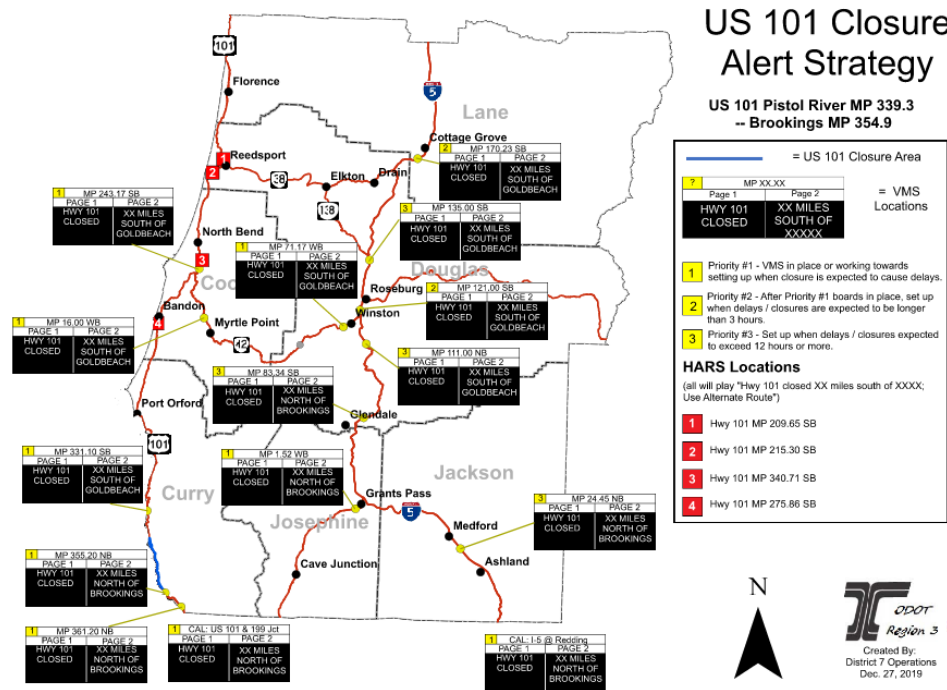




Traffic Control & Communication

- Develop plan for temporary road signs and devices to alert and guide traffic
 - Efficient Traffic Flow
 - Enhanced Safety
 - Minimized Inconvenience
- Develop communication strategies, roles and responsibilities

Stakeholder Outreach: Inform Traffic Control & Communication



- **Describe your experience with prior closures**
 - What worked well?
 - What didn't work?
 - What were some of the most significant impacts to the local community, and how did you address those?"
- **Are there any other unique transportation needs or local considerations that we should be aware of?"**

What's Next

- Stakeholder Outreach. May –July
 - Presentations
 - Small Group Interviews
 - Virtual Open House
- Traffic Control Plans. November 2022
- South Coast Slide Management Study. Spring 2023

